

# ABSTRACT OF THE DISCLOSURE

A vari-focal polar alignment scope includes an objective optical system, a relay optical system, and an eyepiece optical system, in that order from the object side.

5 The relay optical system includes an erecting vari-focal viewing optical system, including a positive condenser lens element, and positive second and third relay lens groups which relatively move in the optical axis direction so as to vary the magnification of the polar alignment scope, 10 wherein the following conditions (1), (2) and (3) are satisfied:

$$6.0 < f_o/f_e < 10.0 \quad \dots \quad (1);$$

$$-4.0 < M_{2L} < -1.0 \quad \dots \quad (2); \text{ and}$$

$$0.2 < M_{3L} < 0.6 \quad \dots \quad (3); \text{ wherein}$$

15  $f_o$  designates the focal length of the objective optical system;  $f_e$  designates the focal length of the eyepiece optical system;  $M_{2L}$  designates the lateral magnification of the second lens group of the relay optical system at a low magnification; and  $M_{3L}$  designates the 20 lateral magnification of the third lens group of the relay optical system at a low magnification.